



Inspectorate America  
104 Thadeus Street  
South Portland, Maine 04106  
(207)767-1711

## QUALITY CERTIFICATE

Vessel	JADE STAR	Port	PORTSMOUTH, NH	Report	PL05-129
Customer	SPRAGUE ENERGY	Date	February 22, 2005	Reference	
Operation	ANALYSIS	Terminal	SPRAGUE GOSLING RD	Sample #	892487

Name of material being tested  
Description of sample source  
Samples Drawn by (company)  
Samples Tested by (company)

### #6 FUEL OIL

TANK 1  
BSI-INSPECTORATE AMERICA  
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Tests being Performed	Test method	Sample Results
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GRAVITY, API	ASTM D 4052	10.4
FLASH POINT, F.	ASTM D 93B	172
SULPHUR, % WT. AVERAGE	ASTM D 4294	1.270
VISCOSITY, SSF, 122F	ASTM D 445/2161	170.9
POUR POINT, F.	ASTM D 97	+21.2
WATER BY DISTILLATION	ASTM D 95	0.3
WATER & SEDIMENT, % VOL.	ASTM D 1796	0.2
SEDIMENT BY EXTRACTION	ASTM D 473	0.05
ASH, % WT.	ASTM D 482	0.09
ASPHALTINES, %WT	IP 143	10.2
BTU'S PER POUND	ASTM D 4868	18,231
BTU'S PER GALLON	CONVERSION	151,408
VANADIUM, PPM	IP-470	145
SODIUM, PPM	IP-470	13
NITROGEN, %WT	ASTM D 5762	0.3611
CARBON RESIDUE % WT.	ASTM D 4530	15.08
SULPHUR, % WT.	ASTM D 4294	
892327	UPPER	1.260
892328	MIDDLE	1.268
892329	LOWER	1.283

SPRAGUE PROVIDES THE ATTACHED INSPECTION REPORT/ANALYSIS REPRESENTING THE SPECIFICATIONS OF THE PRODUCT AT THE SPRAGUE TERMINAL IN TANK ON THE DATE OF INSPECTION NOTED ON THE CERTIFICATE. THIS ANALYSIS IS PROVIDED TO THE CUSTOMER FOR THE PURPOSE OF ESTABLISHING THE INDEPENDENTLY VERIFIED PRODUCT SPECIFICATION ON A COMPOSITE BASIS IN SPRAGUE'S TERMINAL SHORE TANK AS NOTED ON THE CERTIFICATE. THE INSPECTION REPORT IS NOT TO BE USED FOR ANY OTHER PURPOSE. SPRAGUE DISCLAIMS ANY LIABILITY FOR THE PRODUCT AFTER DELIVERY BY SPRAGUE TO CUSTOMER. SPRAGUE DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR AN INTENDED USE EXCEPT AS MAY BE SPECIFICALLY SET FORTH IN WRITING IN ANY CONTRACT OR TERMS OF SALE BETWEEN SPRAGUE AND A BUYER OF PRODUCT. SPRAGUE ASSUMES NO LIABILITY FOR CLAIMS OR LOSSES THAT MAY ARISE FROM CUSTOMER'S USE OF THIS INSPECTION REPORT/ANALYSIS.

DAVID CAWOOD

Inspectorate America Corp (Portland Me.)